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ALUMNI REPORT

PUBLISHED BY THE ALUMNI ASSOCIATION OF THE PHILADELPHIA COLLEGE OF PHARMACY

PUBLICATION OFFICE, 145 N. TENTH ST., PHILADELPHIA

VOL. XXXVI. AUGUST, 1900. No. 8

UNIVERSITY OF

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Price: One dollar, each year, in advance. Issued monthly. Subscriptions date from the January issue. Single numbers, ten cents.

Address all matter for publication to the Editor, Joseph W. England, 145 North Tenth Street, and all business matters to the Business Manager, Wm. Nelson Stem, 145 North Tenth Street, Philadelphia.

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The September Meeting of the Philadelphia Association of Retail Druggists will be held in the Museum of the Philadelphia College of Pharmacy, 145 North 10th Street, Sept. 7th, at 2.30 P.M.

All Retail Druggists cordially invited to attend.

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President.

FRED'K T. GORDON,
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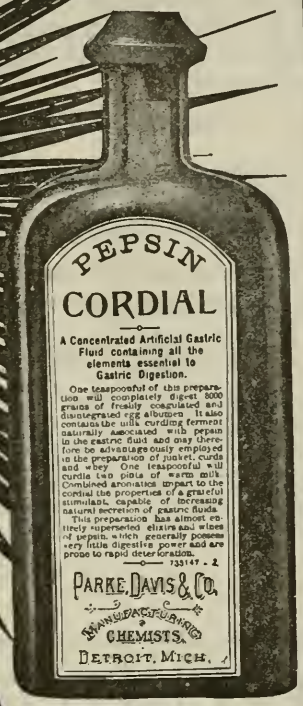
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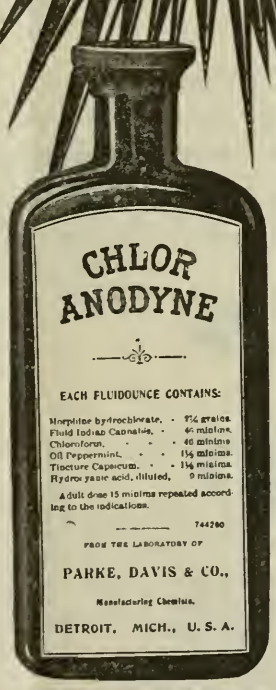

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To the Graduates of the Philadelphia College of Pharmacy

THIS WILL REMIND YOU

That the Eighteenth Annual Announcement (1821-1900) of the Philadelphia College of Pharmacy has just been issued.

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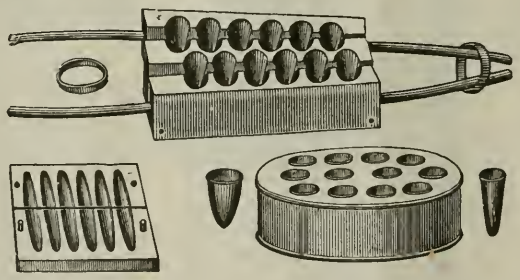

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PUBLISHED MONTHLY BY THE ALUMNI ASSOCIATION OF THE PHILADELPHIA COLLEGE OF PHARMACY.

VOL. XXXVI. ... AUGUST, 1900 ... No. 8

Editorial.

THE EIGHTIETH ANNOUNCEMENT.

The Eightieth Annual Announcement of the Philadelphia College of Pharmacy has been recently issued, and is replete with useful data to those contemplating attendance upon a school of pharmacy.

It is interesting to add that the College has issued, also, an edition of the Announcement printed in the Spanish language for distribution in Cuba, Porto Rico, Mexico, Central America and South America. This is the first edition by any pharmaceutical school of a catalogue in the Spanish language for distribution in the countries above named.

Matriculates are required to take three full courses of instruction, extending through three years. The wisdom of the change from the old two years' course to the three years' has been most strongly shown by the general raising of the averages of the members of the classes that has been taking place ever since the change was inaugurated. It is not enough that a teaching institution shall graduate a number of students who pass brilliant examinations; it is more to the purpose if it studies the individuality of each of its students and thoroughly trains all. And this can only be done with sufficient time to properly grade students and properly grade the instruction to be given them. The rapidly increasing amount of information that pharmaceutical students are now required to obtain, and the fact that this knowledge must increase in the future, clearly shows the wisdom of the three years' course, and proves that, in time, the two years' schools must extend their teaching period.

To those students who complete a three years' course, pass the examinations and are

qualified as to experience, the College confers the degree of Doctor in Pharmacy (P.D.). Graduates in Pharmacy may, upon passing the third year examination and paying the usual examination fee, have conferred upon them the degree of Doctor in Pharmacy.

An increasingly large number of pharmaceutical students are such as a preliminary to the study of medicine, and if the younger medical men to-be but knew it, there is no training, even in the medical schools, which so thoroughly equips a man to meet many of the practical difficulties of medical practice as a good training in practical pharmacy. To these and to those who wish to follow manufacturing pursuits the College offers a course of instruction leading to the degree of Pharmaceutical Chemist (P.C.). These pharmaceutical chemists may have conferred upon them the degree of Doctor of Pharmacy at the Commencement next succeeding the presentation of evidence of satisfactory pharmaceutical experience, and the payment of the usual examination fee.

The arrangement of the subject-matter of the Announcement is along lines that enable students to clearly see what studies they shall have during the first, second and third year courses in pharmacy, chemistry, materia medica and botany, and in the practical work of operative pharmacy, analytical chemistry, practical botany and pharmacognosy. Opportunities are also given for the prosecution of original research or for advanced instruction.

The laboratory course for the Certificate of Proficiency in Chemistry, offered by the College, is an important one, and is as follows:

(1) Experimental Inorganic Chemistry; a selected course of experiments in the preparation of the elements and their compounds.

(2) Qualitative Analysis; a thorough course for the detection of basic and acid constituents.

(3) Blow-pipe Analysis and Determinative Mineralogy.

(4) Inorganic Quantitative Analysis, including gravimetric, volumetric, gasometric, colorimetric and electrolytic processes, with their application in the analysis of Limestone, Clay, Feldspar, Cements, of the ores of Copper, Gold, Iron, Lead, Manganese, Silver, Zinc, etc., of Brass, Solder, Ferromanganese, Cast Iron, Steel, etc., of Boneblack, Fertilizers, Fuel, Graphite, Gunpowder, Water, etc.

(5) Qualitative Organic Chemistry, including the tests for the various elements, the determination of the physical constants, fractional distillation, the preparation of organic substances, and class and individual reactions of organic compounds.

(6) Quantitative Organic Chemistry, including the determination of the various elements, of molecular weight, the assay of drugs for active constituents, the proximate analysis of organic mixtures, toxicology and urinalysis.

(7) The examination of industrial organic products following the outline of Sadtler's Industrial Organic Analysis: Petroleum and Asphalt; Oils, Fats and Waxes, Glycerin, Soaps, Paints; Essential Oils, Resins, Varnishes, Rubber and Gutta Percha; Canesugar, Glucose, Molasses, Rock Candy Syrup, Starch and its Alteration Products; Malt, Beer, Wine, Argols, Brandy, Whiskey and Cordials; Flour, Bread, Baking Powders; Cider, Wine and Artificial Vinegar; Milk, Butter and Cheese; Vegetable and Animal Fibres; Paper; Guncotton and Celluloid; Leather, Tanning Materials, Glue; Wood-spirit, Methyl Alcohol and Acetone; Bituminous Coal, Coke and Illuminating Gas; Coal Tar Dyes, Dyed Fabrics, Bleaching and Dyeing.

Special (optional) courses are offered in Botany and applied Botany on Powdered Foods and Drugs, Fungi and Fungous Diseases, Plant Morphology and Physiology, Systematic Botany and Field Work in Botany. In addition, there is offered an optional course (Bacteriology) for those who wish to fit themselves to make general bacteriological examinations for medical and

technical purposes. The course is open to all those qualified to take up the work, and will consist of a series of lectures and laboratory work, which will be given two mornings a week for a term of about four months. During the course the following subjects will be studied: (1) General bacteriological technique; (2) the morphological and systematic study of some of the more common micro-organisms found in water, air, etc., with special reference to their influence upon sanitary conditions; (3) the examination of sputum and urine for tubercle bacilli; of pus for gonococci; of blood for Widal's reaction for typhoid fever, etc.; (4) the cause of spoliation in some drugs and medicinal preparations. For further information, address the Director of the Department of Botany and Pharmacognosy.

Regarding the course in commercial training instituted last year by the College—and the first of its kind—the Dean states, in a circular letter just issued, that it will be in charge of a competent instructor for the session of 1900–01. This is an optional course, and is open to first, second or third year students. It will embrace training in single and double-entry bookkeeping, the simple forms for quickly and accurately recording original entries, business law in its bearing upon the sale of drugs, the drawing and acceptance of checks, drafts, promissory notes and other papers, penmanship and the legible writing of labels, letters and notes, proper methods of treating and receiving customers and positions; no effort will be spared to cover every commercial point in the education of the pharmacist that will make him not only a valuable assistant, but fit him for the responsible duties of proprietor. The time assigned for this course will be so arranged that any student in the first, second or third year course can be admitted at his option, and a certificate granted after passing an examination. Any person desiring this instruction can take this special course after matriculating at the College. A certificate will be presented to all students passing a successful examination in this branch. Fee for the course, $15.00.

The schedule of fees shows the total cost of obligatory instruction in the College to be unchanged; that is, the fees of each year average a little less than $100, despite the fact that more extended teaching is offered.

A number of scholarships have been founded, each of which entitles a student to free lecture and laboratory tickets. At the end of each year's course students will be required to pass written examinations in the theoretical branches, and practical examinations at the end of the first year in practical botany and operative pharmacy; at the end of the second year in pharmacognosy and qualitative chemical analysis; and at the end of the third year in operative pharmacy, pharmaceutical assaying and quantitative chemical analysis.

To encourage excellence in work a large number of prizes are annually awarded to students, either as memorials or by the friends and teachers of the College. In addition, the Alumni Association offers a gold medal to the student who shall pass the best examination in all branches for the degree of Doctor in Pharmacy, nine certificates for superior excellence to students in the graduating class receiving the highest average in the different branches; a silver medal for the student of the second year class with the highest rating, and a bronze medal for the best student of the third year class.

A feature of the Announcement is a number of handsome illustrations made from photographs taken by F. Gutekunst, '53 (P.C.P.), (the widely known photographer of this city), of the different rooms of the College buildings, such as the Pharmaceutical Laboratory, the Lecture Rooms, the Microscopical Laboratory, the Chemical Laboratory, the Library, the Museum, etc.

In conclusion, the Announcement refers to the Pharmaceutical Meetings of the College, the Students' Herbarium, the Alumni Association, the Museum, the Library, and various other matters of interest.

We have dwelt at length upon the details of this catalogue for the purpose of bringing before the graduates of the Philadelphia College of Pharmacy the advances that have taken place in the curriculum of the latter during the past year, and for the purpose of reminding them of a duty they owe to their *Alma Mater*.

This pioneer school of pharmacy easily ranks first in the schools of its class, and if it is to retain this position its work and worth must be brought before prospective students to the end that more students may be sent to its halls for instruction.

We earnestly urge the graduates of the Philadelphia College of Pharmacy to stand by their *Alma Mater*, and to send for Announcements and distribute where they will do good, or to send to the Registrar of the College, W. Nelson Stem, the names of prospective students in pharmacy of whom they may have knowledge. The old College has done much for you by the education given you ; do something now for the College. Let all do their full duty and the class matriculating next fall will be the largest in the history of the P.C.P.

Send for a number of Announcements now.

Paper.

STUDENT WORK IN THE PHILADELPHIA COLLEGE OF PHARMACY.

The eightieth annual Announcement of the Philadelphia College of Pharmacy has been recently issued, and is replete with interesting information regarding this, the foremost school of its kind in the land, and the conditions under which studies may be pursued within its walls. A paper, embracing in full the contents of the Announcement, is here given, for the purpose of keeping the readers of the ALUMNI REPORT advised as to the scope and excellence of work done by this institution.

HISTORICAL SKETCH OF THE COLLEGE.

As the result of a meeting held on February 23, 1821, in the historic Carpenters' Hall, within whose walls assembled the first Continental Congress, the Philadelphia College of Pharmacy was organized, and received its charter from the State of Pennsylvania in 1822. After occupying buildings on Seventh Street and Filbert Street, respectively, in 1868, a building on part of the present site, 145 North Tenth Street, was completed, and the institution moved thereto. Here commodious laboratories were fitted up for practical instruction in analytical chemistry and in pharmacy.

Since that time the growth of the College has been phenomenally rapid. In 1881 additions were made to the building, which nearly doubled its size, these additions being largely used to supply the need for greater laboratory facilities. In 1886 the Chemical Laboratory was again enlarged by a building for special chemical research.

A large six-story building was erected during the summer of 1892, and, at the same time, the Pharmaceutical and Chemical Laboratories were increased in size by over one-half. In 1894 the Microscopical Laboratory was greatly enlarged, and furnished with a new outfit of microscopes.

The ground floor of this new building contains the entrance to the lecture rooms and laboratories, the Actuary's office, a committee room, students' reading-room and the commodious library. The second and third stories form a large hall, with galleries, for the accommodation of the College Museum, including the extensive collections in materia medica, botany, pharmaceutical and chemical apparatus and products, and the valuable *Martindale Herbarium*. The fourth story contains the publication office of the *American Journal of Pharmacy*, the private office of the editor, and a large hall for the Alumni Association. The fifth floor is one large examination room, and the sixth story is used for storage. Connected with this new building, and immediately back of it, is the tier of three lecture rooms, each with the private room of the professor adjoining. Each of these lecture halls will seat nearly 400 students, and each is equipped with chairs of the most approved pattern, has electric lights and a thorough system of heating and ventilation.

Adjoining the lecture rooms on the east are the three laboratories and a quiz room. Under these are the boilers, engines and dynamos, which supply heat, light and ventilation to the whole building.

With this magnificent equipment, it can be fairly

claimed that the Philadelphia College of Pharmacy possesses the largest building in the world devoted exclusively to teaching pharmacy and its allied branches.

The scientific literature which has emanated from the College has been abundant and authoritative. The *American Journal of Pharmacy*, established in 1825, is the oldest periodical devoted to pharmaceutical science in the English language. It has always maintained a high scientific character, and is a recognized authority in Europe, as well as in our own country.

The "United States Dispensatory" had for its authors Drs. Wood and Bache, two of the earlier professors in this College, aided by a former President, Daniel B. Smith. In later editions, Dr. Robert Bridges contributed the chemical, and Prof. William Procter, Jr., the pharmaceutical articles. For the last four editions it has had for its pharmaceutical and chemical editors the present professors of Pharmacy and Chemistry.

The "National Dispensatory," first published in 1879, had as one of its original editors the late Prof. John M. Maisch. Numerous other valuable contributions have been made by those who have been or are now members of the Faculty of the College, and at the present time many of these works are the standard text-books on the subjects of which they treat.

Since the establishment of the institution, 15,867 students have matriculated, and the diploma of the College has been conferred upon 4,758 persons, representing every State in the Union, as well as Canada, Cuba, Central and South America, and various parts of Europe, Asia and Africa

The number of students in attendance for the session 1899–1900 was 470.

The list of those who have been teachers in the College comprises the names of many who have been eminent workers in American pharmacy and allied sciences. It is as follows:

Gerard Troost, M.D., Professor of Chemistry from 1821 to 1822.

Samuel Jackson, M.D., Professor of Materia Medica from 1821 to 1827.

Benjamin Ellis, M.D., Professor of Materia Medica from 1827 to 1831.

George B. Wood, M.D., LL.D., Professor of Chemistry from 1822 to 1831, when he was elected to the chair of Materia Medica, made vacant by the death of Dr. Ellis, and continued until 1835.

Franklin Bache, M.D., Professor of Chemistry from 1831 to 1841.

R. Egglesfield Griffith, M.D., Professor of Materia Medica from 1835 to 1836.

William R. Fisher, Professor of Chemistry from 1841 to 1842.

Joseph Carson, M.D., Professor of Materia Medica rom 1836 to 1850.

William Procter, Jr., Professor of Theory and Practice of Pharmacy from 1846 to 1866, and from 1872 to 1874.

Robert P. Thomas, M.D., Professor of Materia Medica from 1850 to 1864.

Edward Parrish, Professor of Materia Medica from 1864 to 1866, and Professor of Pharmacy from 1866 to 1872.

Robert Bridges, M.D., Professor of Chemistry from 1842 to 1879, and Emeritus Professor of Chemistry from 1879 to 1882.

John M. Maisch, Ph.M., Phar.D., Professor of Pharmacy from 1866 to 1867, and Professor of Materia Medica from 1867 to 1893.

Edson S. Bastin, A.M., Professor of Materia Medica and Botany from 1893 to 1897.

Henry Trimble, A.M., Ph.M., Professor of Analytical Chemistry from 1883 to 1898.

PHILADELPHIA AS AN EDUCATIONAL CENTRE.

Philadelphia has six medical schools and four dental colleges, with an annual enrollment of about 3,800 students. Moreover, in addition to the educational advantages in the way of libraries and scientific collections to be expected in a city of a million and a half inhabitants, Philadelphia has a unique educational institution that cannot fail to interest the intelligent pharmaceutical student. This is the "Philadelphia Commercial Museums." In this are gathered the raw materials, including drugs, dye-stuffs, fibres, woods, etc., from all parts of the world, together with the most important groups of manufactured articles from the same. These exhibits, which have been gathered by exchange, gift and purchase from all quarters of the globe since 1893, now constitute by far the most comprehensive collection on this continent.

By an arrangement made during the past year, the students of the Philadelphia College of Pharmacy are given especial facilities in the study of these great collections, and lectures are delivered at the College illustrated with material taken therefrom.

ANNOUNCEMENT.

THREE YEARS' COURSE.

The enlarged sphere of the modern pharmacist and the vast increase in the number of synthetical and other medicinal agents used in the practice of medicine of to-day demand more thorough and accurate knowledge on the part of the student in pharmacy. The Board of Trustees, in 1895, realizing that the Philadelphia College of Pharmacy must keep pace with the best universities and colleges of medicine in America, which have universally increased their number of courses, have adopted the three-year course, and now confer a degree Doctor of Pharmacy (P.D.) or Pharmaceutical Chemist (P.C.) as a proper acknowledgment of the graduate's increased attainments.

PRELIMINARY EXAMINATIONS.

All students matriculating at the Philadelphia College of Pharmacy, and candidates for either of the degrees

conferred by the same, will be required to attend the preliminary examinations. These are two in number, are held four weeks and eight weeks, respectively, after the opening of the term, and are based upon the subject-matter of the lectures and laboratory exercises covered by the students prior to the dates of the examinations. With the first of these examinations is also combined an examination in the usual rudimentary branches of English education. Such students as can present diplomas or certificates of having successfully completed a grammar-school or high-school education will be exempted from this scholarship examination. All others, however, must pass it before being recognized as having regular class standing, and in the event of their failure, are not admitted to further examinations with the class until their deficiencies are made up.

EXAMINATIONS FOR PROMOTION AND FOR ADVANCED STANDING.

An examination of the first year students will be held during the first week in March, to determine their qualification to become second year students.

Second year students will have a *mid-year examination* during the first week in January, the result of which will be counted with their final examination in determining their fitness for promotion to the third year.

The examination of second year students, for promotion, will take place about the middle of March.

Any student, in either class, failing to pass the examination in a majority of the branches which he has pursued, will be required to repeat his year's work. Failure in one or two branches will place him in the list of *conditioned* students, and he will be allowed an opportunity to make up his deficiencies and take an examination at the beginning of the fall term.

Students coming from other colleges of pharmacy will be admitted to advanced standing by showing that they have pursued an equivalent course and have passed the examinations on the same.

This examination for admission to advanced standing will be held September 28, 1900, at 2 o'clock P.M.

FIRST YEAR COURSES.

COURSE ON THEORY AND PRACTICE OF PHARMACY.

BY PROF. JOSEPH P. REMINGTON, PH.M.

This will commence with a series of lectures upon the Pharmacopœias and various systems of weights and measures used by the principal nations, especial attention being given to those authorized by the United States, Great Britain, France, Germany, etc. Specific gravity will next be considered, and the principles explained, illustrated by practical experiments, showing its usefulness as applied to Pharmacy and Chemistry.

The apparatus and the manipulations used in the store and laboratory for generating, regulating and sustaining heat will then be taken up and illustrated by the exhibition of furnaces, lamps, heaters, etc., when used for burning coke, anthracite, charcoal, gas, alcohol, coal-oil, gasoline, etc.; steam, sand, oil, water-baths, etc.

Evaporation, distillation, sublimation, precipitation and crystallization will then be treated at length, and thoroughly illustrated by apparatus and specimens from the College Cabinet and the greatly augmented collection of the lecturer.

Lectures on comminution will follow, exhibiting apparatus, models, etc., showing the working of mills, burr-stones, chasers, hand-mills, mortars and pestles, and sieves of various kinds. Diagrams exhibiting methods whereby grinding and sifting on the large scale are performed, as well as the smaller operations as carried on in the store, will next receive attention.

The next subject will be solution, which will be explained and its principles illustrated, also lotion, decantation, elutriation, trochiscation, to be followed by lectures on filtration, clarification and decoloration. The pharmaceutical subjects of maceration, expression, infusion, decoction, digestion come next in order; and several lectures will be devoted to percolation or displacement, on account of the great importance of this process and its extensive applications in Pharmacy.

The course will close with the consideration of the classes of the Galenical pharmaceutical preparations.

Text-Book.—Remington's Practice of Pharmacy (latest), 1899 edition.

Book Recommended for Reference.—U. S. Dispensatory, *18th edition*, Wood, Remington and Sadtler.

COURSE ON CHEMISTRY.

BY PROF. SAMUEL P. SADTLER, PH.D.

As an elementary knowledge of the physical laws governing matter is necessary for the intelligent study of its chemical properties, a series of lectures on Chemical Physics will precede and pave the way for the systematic study of the chemical elements and compounds. After definitions of the elementary properties possessed by all matter, the special laws governing liquids and gases, with the applications resulting from them, will be discussed and illustrated. The subjects of heat, light, magnetism and electricity, both frictional and dynamical, will then be taken up and fully explained. This course on Chemical Physics will be abundantly illustrated, the College possessing a fine set of Physical Apparatus of the newest construction.

The outlines of Chemical Theory will follow, and the subjects of atoms, molecules, chemical nomenclature and notation will be gone over with care, so as to lay the foundations for a thorough understanding of the teachings of Modern Chemistry.

The laws of chemical combination according to valence will be explained, and the rules for the formation and correct naming of acids, bases and salts properly impressed upon the student. Stoichiometry or the making of calculations from chemical formulas and

equations will also be given attention and its principles explained.

The remaining lectures of the course will be upon the non-metallic elements and their compounds with each other. With each group of non-metals, the hydrogen and oxygen compounds of the elements of the group will be studied, as these illustrate most fully the valence and acid-forming characters. The lectures will be illustrated freely by lantern slides.

Text-Book.—Sadtler and Coblentz's Pharmaceutical and Medical Chemistry, New Edition, Vol. I.

COURSE ON MATERIA MEDICA.

BY PROF. CLEMENT B. LOWE, PH.G., M.D.

As knowledge of the human body is indispensable to an intelligent understanding of the action of drugs, a course of lectures (one per week throughout the term) will be devoted to the subjects of Elementary Anatomy, Physiology and Hygiene.

The different parts and organs of the body will be successively described, and special attention will be devoted to the functions and hygiene of each. Every effort will be made to make these lectures of special value from the standpoint of the action of drugs upon the human system ; for example, in the lectures upon digestion, the digestive ferments will be treated and their action fully explained ; in the lectures upon the eye, the action of the mydriatic and myotic drugs will be considered, etc.

No text-book will be required, since each lecture will be presented by means of topical outlines. These the students will be expected to record in their note-books, and they will form the basis of the several examinations held throughout the term.

The lectures will be fully illustrated by means of a collection of large-sized colored charts, numerous drawings, the human skeleton, models, specimens, etc.

Book of Reference.—Brubaker's Physiology (interleaved).

COURSE ON BOTANY.

BY PROF. HENRY KRAEMER, PH.G., PH.D.

The aim of this course of lectures is to instruct the student in those principles of botany that will enable him, in connection with the Laboratory Course in Practical Botany, to lay the foundation for the study of crude and powdered vegetable drugs, and to detect adulteration in the same in the work of the second year.

In this course will be considered the principles necessary to this end of the following departments of botany: outer and inner morphology, physiology and biology of flowering plants, including the consideration of roots, stems, leaves, flowers, fruits and seeds. Also the methods of naming, classifying, collecting and preserving plants. The lectures will be illustrated by aid of the lantern, charts, drawings, models and specimens. The subjects will also be studied with drug specimens or the parts of economical plants in the *Laboratory Course of Practical Botany*, which constitutes a part of the curriculum of this year.

COURSE IN OPERATIVE PHARMACY.

BY PROF. JOSEPH P. REMINGTON, PH.M., AND ASSISTANT DIRECTOR F. G. RYAN, PH.G.

The Pharmaceutical Laboratories are complete in their appointments; the larger contains accommodations for the instruction of 200 students, both together contain 250 desks; each table has gas, water and steam-bath attachment, and each a closet for the stowing of apparatus, which will be in charge of the student occupying it. Adjoining and connecting with it is the lecture room of the Professor of Pharmacy and the room used to store the larger apparatus and subjects for illustration. These are all on the second floor, and communicate directly with each other.

The processes of the Pharmacopœia will especially claim attention, and not only will those galenical preparations that are frequently made by the retail pharmacist receive the consideration that they deserve, *but particular care will be extended, in order that each student may learn how to make many chemical and pharmaceutical preparations that he has not been in the habit of making.*

Instruction is given in the preparation of Fluid Extracts, Tinctures, Syrups, Extracts, Powders, Pills, Plasters, Ointments, Cerates, Suppositories, Lozenges, Spirits, Waters, Infusions, Confections, Granular and Crystallized Salts, Scaled Iron Salts, the Iron Solutions of the Pharmacopœia, etc.

The First Year Class will meet on Tuesday and Thursday afternoons, and, before proceeding with the practical work, a short lecture will be delivered, explaining in detail the various steps in the manipulatory exercise about to follow ; the difficulties which will be likely to ensue will be treated of, and the method of overcoming them explained.

At the close, each member of the class will proceed to his working table in the adjoining room (laboratory) and apply practically the knowledge of the subject that he has acquired. Test examinations will be held at suitable intervals to indicate the degree of progress made by the operator, whilst the examination in Operative Pharmacy at the end of the course will prove the candidate's fitness to enter the Second Year Course.

Text-Book.—Remington's Practice of Pharmacy (latest), 1899 edition.

Apparatus and material furnished without cost to the students in the Operative Pharmacy Course; implements that are broken or injured to be replaced.

COURSE IN PRACTICAL BOTANY.

BY PROF. HENRY KRAEMER, PH.G., PH.D.

The laboratory for the study of Practical Botany and Pharmacognosy is complete in its appointments. The room is an admirably lighted and ventilated one,

on the fourth floor of the building, and is furnished with tables to accommodate 100 students working at a time; with drawers and cupboards for individual apparatus; with complete sets of reagent bottles; with section instruments and other accessory apparatus; with cases for microscopes, apparatus and materials for study; with charts, drawings and other appliances for illustration, etc. There are 120 simple and 100 compound microscopes, all of the most approved pattern for work of the kind.

Each student is provided in the laboratory with a simple and compound microscope, a set of apparatus and reagents, and materials required for study. The reagents and specimens of materials required for study are provided without cost to the student. A small fee is required to cover the wear of the microscope. The apparatus otherwise employed by the student is furnished at cost, and at the close of the term the student may return such of the apparatus as is returnable, provided it remains uninjured, and receive for it the purchase price. If any of the parts of the microscope or any accessory apparatus furnished by the College is damaged or destroyed, it must be replaced.

The aim of the course in Practical Botany is to inculcate in the student habits of close observation and to prepare him for the work of the course in Pharmacognosy. During this year the student becomes familiar with the optical principles of the microscope; the uses of the more important micro-reagents, stains and mounting media; the methods of preserving, hardening, softening, sectioning and mounting objects for microscopic study; the methods of drawing microscopic objects. The student will also be made familiar with the various kinds of cells and their contents; and with the morphological characteristics of the different elements of plants, viz.: roots, stems, leaves, flowers, fruits and seeds. In brief, the object is to get the student ready to study vegetable drugs properly and accurately. The material used will consist of drugs or otherwise useful plants or their parts.

The course will consist of two hours of laboratory work per week for each student throughout the term. Students will keep records of the observations made at each exercise, such to be examined and rated.

SECOND YEAR COURSES.

COURSE ON THEORY AND PRACTICE OF PHARMACY.

BY PROFESSOR JOSEPH P. REMINGTON, PH.M.

This course will begin with the lectures upon the pharmacy of the inorganic chemical substances. The preparations will be taken up in detail, and the application of the principles and operations which were considered in the first course, illustrated by practical application. By the end of the term, the student should have a complete detailed knowledge of the pharmaceutical preparations of official organic and inorganic substances.

All the preparations of *each drug* will be considered in detail, preceded by a brief but sufficient description of the characters of the active principle (or principles), its solubility, volatility and other properties involved in the treatment to which the drug is subjected in making the preparations. Drugs will thus be treated in groups, according to the nature of their proximate principles, so as to bring those together having an affinity in this respect. Thus the astringents, containing tannic or gallic acid, will form one group; the gums and mucilages another; the volatile oils a third, and so on. In this way the student will get a natural arrangement of the subject, each drug being studied separately and each individual preparation clearly brought into view, besides those allied to it in medicinal character.

This plan of classification is arranged that most of the important derivative products useful as menstrua, or concerned in subsequently considered preparations, as alcohol, methylic and amylic alcohol, ether, chloroform, etc., will be considered early, followed by the alkaloids, glucosides, resin, balsams, etc.

The preparations from animal drugs will follow.

The mode of teaching which educates the mind through impressions made on the eye is now universally regarded as one of the most effective means of imparting knowledge. Through both courses this kind of instruction will be largely used, and the syllabic tables, drawings on cloth in colors, reactions, tests, views, etc., projected upon the screen by means of the oxy-hydrogen lantern, will, it is believed, add greatly to the usefulness and interest of the lectures.

Text-Book.—Remington's Practice of Pharmacy (latest), 1899 edition.

Book Recommended for Reference.—U. S. Dispensatory, *18th edition*, Wood, Remington and Sadtler.

COURSE ON CHEMISTRY.

BY PROF. SAMUEL P. SADTLER, PH.D.

The inorganic acids will now be taken up for special consideration. With hydrochloric acid and the other haloid acids, the general characteristics of chlorides will be noted; with sulphuric and the other oxygen acids, the characteristics of sulphates and other classes of salts will be discussed.

The metals will then be taken up. After a general classification, based in the main upon valence grouping, as illustrated in the periodic system, the detailed study of the more important metals and their salts will follow. Such as have pharmaceutical or technical importance will be specially noted, the commercial methods of manufacture described, pharmacopœial tests for identity and for detection of impurities referred to and explained.

This course will be concluded by a short series of lectures on selected Inorganic Chemical Industries, a knowledge of which is likely to be of value to the pharmacist.

The lectures of the year will be illustrated in the fullest way, not only by chemical preparations and

specimens from the College Museum and from the private collection of the professor, but by lantern projections of all important manufacturing processes.

Text-Book.—Sadtler and Coblentz's Pharmaceutical and Medical Chemistry, New Edition, Vol. I.

COURSE ON MATERIA MEDICA.

BY PROF. CLEMENT B. LOWE, PH.G., M.D.

In the lectures upon Materia Medica drugs will be considered according to their official names, synonyms, origin, habitat, pharmacopœial definitions, chemical constituents or chemical composition, physiological and toxicological action and antidotal treatment, medicinal properties, doses, official preparations and relative medicinal action of these preparations. (All instruction pertaining to the collection, preparation, description, macroscopical and microscopical structure, substitution and adulteration of the organic vegetable drugs will be given in the Course on Pharmacognosy.)

The lectures will be given in the following order: First, an explanation will be given of the definitions that will be used in the lectures, then attention will be called to dosage and methods of administration of medicines, followed by a brief classification of drugs according to the part of the body upon which they act, after which the individual drugs will be considered in several well-marked groups.

As many of the most important drugs of the Pharmacopœia are of inorganic origin, they will also be treated of, and will be taken up first; afterwards the organic drugs of vegetable origin will be considered.

Text-Book.—White and Wilcox's Materia Medica.

Reference Books.—The U. S. Pharmacopœia (1890), the U. S. Dispensatory (18th edition), by Wood, Remington and Sadtler.

COURSE IN ANALYTICAL CHEMISTRY.

BY PROF. FRANK X. MOERK, PH.G.

This course consists (1) in studying the action of reagents upon solutions of salts of the bases and acids; (2) in analyzing unknown solutions by the use of these same reagents; (3) in analyzing simple and adulterated pharmacopœial powders; (4) in analyzing mixed powders, and (5) in analyzing, qualitatively, urine for normal and abnormal constituents.

Each student must supply himself with the following apparatus in time for the first lesson, Sect. I, on October 1, at 1 P.M., and Sect. II, October 5, at 1 P.M.:

1 4-oz. Evap. Dish,
1 8-oz. Wash Bottle,
2 Glass Rods,
2 2-oz. Beakers,
2 4-oz. Beakers,
3 2-oz. Funnels,
1 doz. 6-in. Test Tubes,
1 Pipe-Stem Triangle,
¼ lb. ¼-in. Glass Tubing,
1 Porcelain Crucible, No. 00,
Platinum Wire and Foil,
1 Piece Blue Glass,
Filter Paper, 7 and 9 cm.,
1 Test Tube Brush,
1 Pair Small Forceps,
½ doz. Corks for Test Tubes,
1 Round File,
1 Triangle File,
1 Blow Pipe.

Text-Book.—Sadtler and Coblentz's Text-Book of Chemistry, Vol. II.

COURSE IN PHARMACOGNOSY.

BY PROF. HENRY KRAEMER, PH.G., PH.D.

In this course the principles of botany, in which the student has previously been grounded, are applied in the study of vegetable drugs. The aim is to develop in the student right methods of studying drugs, to familiarize him, by the direct and systematic study of the materials themselves, with the structural characteristics, where it may be necessary, of the different parts of plants employed in medicine, and to prepare him to detect with certainty adulterations and substitutions. The subjects of the origin, habitat and mode of collecting all of the more important drugs will also be considered.

This course will consist of practical study by the aid of the senses, microscope and necessary reagents, of crude and powdered vegetable (both official and otherwise important non-official) drugs. For this purpose each student will be furnished with specimens of crude and powdered drugs. There will be one exercise per week for each student throughout the term, and each exercise will be three hours long. A record of observations, consisting of drawings and written descriptions of structures, will be kept by the student, and from time to time, when called for, submitted to the director for inspection and rating. This course will also include a microscopical examination of urinary sediments and blood.

Reference Books.—U. S. Pharmacopœia; United States Dispensatory.

THIRD YEAR COURSES.

COURSE ON THEORY AND PRACTICE OF PHARMACY.

BY PROF. JOSEPH P. REMINGTON, PH.M.

This course will be devoted to advanced pharmacy, and will, in connection with the course in operative pharmacy, have a special bearing upon fitting the student for responsibilities of taking charge of a dispensing store. Magistral Pharmacy will be entered into very much more completely than ever before, on account of the greater length of time to devote to it. Counter and prescription practice, the proper methods of preparing pills, ointments, powders, plasters, suppositories, emulsions, lozenges, pastes, capsules, lotions,

liniments, gargles, injections will be thoroughly explained. Prescription difficulties will be classified, those arising from incompatibilities of various kinds being grouped together; illegible prescriptions will form another class for study, and no effort will be spared to equip the student with practical knowledge that will fit him to assume the duties of a proprietor.

The enlargement of the course will permit the admission of lectures on pharmaceutical legislation, during which the laws of the various States relating to pharmacy will be treated in detail. The regulations governing Boards of Pharmacy in the various States will be considered and legislation in its relation to the public, the pharmacist and the physician will receive careful attention. The duties of a pharmacist as a business man, guiding principles in conducting business, the ethical relations of the physician and pharmacist will also be considered. The course will have for its aim the thorough equipment of a pharmacist for his most responsible duties.

Text-Book.—Remington's Practice of Pharmacy (latest), 1899 edition.

Book Recommended for Reference.—U. S. Dispensatory, 18th edition, by Wood, Remington and Sadtler.

COURSE ON CHEMISTRY.

BY PROF. SAML. P. SADTLER, PH.D.

Organic Chemistry will first receive attention, and the whole field of this branch, so fundamentally important to the pharmacist, is covered in detail. While the treatment will be in all respects a scientific one, especial attention will be paid to those compounds which are now, or are likely to be, of pharmaceutical and medicinal value.

The applications of organic compounds in the arts will also be noted, and illustrated with the aid of specimens and abundant use of lantern projections of manufacturing processes.

Following the Organic Chemistry will be a series of lectures on Toxicology and the special study of mineral and organic poisons, the means of detecting them and their antidotes.

The course will be concluded by a series of lectures on Sanitary Chemistry, Antiseptics and Germicides.

Text-Book.—Sadtler and Coblentz's Pharmaceutical and Medical Chemistry, New Edition, Vol. I.

Books Recommended for Reference.—U. S. Dispensatory, 18th edition, by Wood, Remington and Sadtler; Roscoe & Schorlemmer's Treatise on Chemistry, and Sadtler's Industrial Organic Chemistry.

COURSE ON MATERIA MEDICA.

BY PROF. CLEMENT B. LOWE, PH.G., M.D.

The consideration of the remaining drugs of vegetable origin will be continued in the same manner as in the Second Year, after which will be studied the organic drugs of animal origin and the most important of the non-pharmacopœial remedies.

Following this there will be given a series of lectures and demonstrations upon the services which should be rendered by the pharmacist in *emergencies.* This duty being recognized by the public, the necessary instruction is thus provided for the student.

Text and Reference Books, as in the Second Year's Course; in addition, Dulles' Accidents and Emergencies.

COURSE IN OPERATIVE PHARMACY.

BY PROF. JOSEPH P. REMINGTON, PH.M., AND ASSISTANT DIRECTOR F. G. RYAN, PH.G.

All third year students and candidates for either degree are required to attend this course and take an examination at its close.

The instruction will consist of short practical lectures upon the lessons selected for the laboratory work, and these will be followed by manual operations by the student personally, under the superintendence of the Director and his assistant. As far as possible, the subjects will be mainly those treated of in the lectures on Magistral Pharmacy or the more advanced pharmaceutical operations. As occasion offers, the students of this course will be offered the privilege of visiting factories, laboratories, etc., under the guidance of the Directors, to witness operations conducted on a large scale, as in this way much more information may be secured than can be imparted by didactic instruction. Twenty years' experience in this method of supplementing the College instruction has proved its great value, and the facilities afforded by Philadelphia and its environs as a centre of manufacturing industries are utilized to the advantage of the student. This method of instruction is necessarily limited to the members of the graduating class.

Text-Book.—Remington's Practice of Pharmacy (latest), 1899 edition.

COURSE IN QUANTITATIVE ANALYSIS AND PHARMACEUTICAL ASSAYING.

BY PROF. FRANK X. MOERK, PH.G.

A review of the second year's work will be followed by a number of lessons which will familiarize the student with the various operations involved in gravimetric analysis, as the estimation of acid and basic constituents of barium chloride, magnesium sulphate, calcium hypophosphite, magnesium carbonate, etc., mixtures of salts and alloys will be given to illustrate the methods that must be followed in making quantitative separations.

Volumetric analysis will be outlined, notably assisted by the proper grouping of the official volumetric solutions and by practical demonstration of the value of the several indicators; numerous determinations will then follow with each solution; attention will also be given to rational methods of standardizing solutions to be used for volumetric purposes.

Gasometric analysis will be employed in the deter-

mination of spirit of nitrous ether, sodium nitrite and urea.

Particular attention will be given to the official and some unofficial assay processes for drugs, to the recognition of isolated alkaloids and other active constituents; and, lastly, the quantitative analysis of urine for normal and abnormal constituents will be taken up as a practical application of the work of the year.

The class will be divided into three sections and students should make application not later than October 1st for admission into any particular section. The laboratory work will start promptly with the opening of the term.

In addition to the apparatus listed for second year students, each student must supply himself with the following:

1 Desiccator, with Pipe-Stem Triangle,
1 Porcelain Crucible No. 00,
2 8-oz. Beakers,
Filter Paper, Swedish No. 2,
1 4-oz. Erlenmeyer Flask, small mouth,
1 10 c.c. Volume Pipette,
2 6-oz. Bottles,
½ doz. Corks for Bottles and Flask.

All apparatus loaned to the student must be replaced at his expense if broken, damaged or lost.

Text-Books.—Sadtler and Coblentz's Text-Book of Chemistry, Vol. II, and the U. S. Pharmacopœia.

INDIVIDUAL INSTRUCTION IN OPERATIVE PHARMACY.

Twenty years' experience in conducting the course in Operative Pharmacy has developed the fact that in many cases the student needs more individual care and personal attention than can be given in class instruction, and, with a view of extending the advantages of this course, it has been determined to open the pharmaceutical laboratory in the mornings, from 9 to 12 o'clock, for *individual instruction*.

A graded course will be pursued; beginning with the simpler pharmaceutical preparations, the student will be led gradually to the manufacture of those which are recognized as difficult or requiring the exercise of special skill. The compounding and study of prescriptions which are intricate, or which call for peculiar manipulation, will form an important part of the instruction.

Opportunities will be afforded students, who are engaged in writing theses on pharmaceutical subjects, to perform their work in the laboratory. The instruction will be carefully adapted to the proficiency, requirements and ability of each student, and those taking either of the courses may enter at any time during the lecture season, and select such periods and times for their work as their engagements may permit. Apparatus and material will be furnished without charge, except where the student may prefer to retain the products for his own use. Particular attention is given to instruction in making compressed pills and triturates, granular effervescent salts, gelatin suppositories and the newer classes of preparations.

Fees.	*First Month.*	*Every Subsequent Month.*
Daily practice	$15 00	$10 00
Five days a week . .	13 75	8 75
Four days a week . .	12 50	7 50
Three days a week . .	11 00	6 00
Two days a week . .	9 00	4 00
One day a week . . .	7 00	2 00

Apparatus which is lost, broken or injured must be replaced at the expense of the student in whose charge it is given.

THE SCHOOL OF PRACTICAL CHEMISTRY.

PROF. FRANK X. MOERK, PH.G.

The department of Practical Chemistry possesses a commodious and well-lighted laboratory, containing ninety-seven tables, each of which is provided with water, gas, filtering-stands, facilities for evaporation, and a complete set of chemical reagents. Operations on a large scale, as distillation, etc., are executed on side tables provided for the purpose, and for the processes of ignition, evaporation of acids, etc., as also for the generation of unpleasant and noxious gases, such as hydrogen sulphide, chlorine and sulphurous acid, suitable fume chambers are provided.

For the session of 1900–1901, the Chemical Laboratory will be open every weekday from October 1 to June 29 during the hours from 9 A.M. to 5 P.M. (the Christmas and legal holidays and about two weeks in March excepted).

The study in this course is known as *Individual Instruction*, and is recommended to students who desire to take up more fully the work mapped out for the classes or for special work in connection with the preparation of theses. Particular attention is called to the fact that the laboratory is open during the spring months and to the advantages of pursuing such work whilst free from the pressure of other studies.

Students will be supplied with all reagents excepting solutions of silver nitrate and platinic chloride. During the regular college term students taking the class instruction will be entitled to the reduced rates for extra work.

SPECIAL STUDENTS IN CHEMISTRY.

PROFS. SAMUEL P. SADTLER, PH.D., AND FRANK X. MOERK, PH.G.

In order to make the laboratory more widely useful, and to open the facilities of instruction possessed by the College to that considerable class who are specially interested in the application of chemistry in the arts and manufactures, provision has been made for the reception of such special chemical students at any time of the term.

They will, after receiving a proper foundation of general and analytical chemistry, be given systematic

instruction covering the desired range of applied or industrial chemistry, and will be taught the methods of analysis which are special for each group of industries.

Upon completing such a course, a certificate will be awarded stating the particulars of the course.

The *Certificate of Proficiency in Chemistry* of this College will be conferred upon the students who complete the following instruction, attend the three courses of lectures by the Professor of Chemistry and pass satisfactory examinations in the several branches:

LABORATORY COURSE FOR THE CERTIFICATE OF PROFICIENCY IN CHEMISTRY.

(1) Experimental Inorganic Chemistry; a selected course of experiments in the preparation of the elements and their compounds.

(2) Qualitative Analysis; a thorough course for the detection of basic and acid constituents.

(3) Blow-pipe Analysis and Determinative Mineralogy.

(4) Inorganic Quantitative Analysis, including gravimetric, volumetric, gasometric, colorimetric and electrolytic processes with their application in the analysis of Limestone, Clay, Feldspar, Cements, of the ores of Copper, Gold, Iron, Lead, Manganese, Silver, Zinc, etc., of Brass, Solder, Ferromanganese, Cast Iron, Steel, etc., of Bone-black, Fertilizers, Fuel, Graphite, Gunpowder, Water, etc.

(5) Qualitative Organic Chemistry, including the tests for the various elements, the determination of the physical constants, fractional distillation, the preparation of organic substances, and class and individual reactions of organic compounds.

(6) Quantitative Organic Chemistry, including the determination of the various elements, of molecular weight, the assay of drugs for active constituents, the proximate analysis of organic mixtures, toxicology and urinalysis.

(7) The examination of industrial organic products following the outline of Sadtler's Industrial Organic Analysis: Petroleum and Asphalt; Oils, Fats and Waxes, Glycerin, Soaps, Paints; Essential Oils, Resins, Varnishes, Rubber and Gutta Percha; Canesugar, Glucose, Molasses, Rock Candy Syrup, Starch and its Alteration Products; Malt, Beer, Wine, Argols, Brandy, Whiskey and Cordials; Flour, Bread, Baking Powders; Cider, Wine and Artificial Vinegar; Milk, Butter and Cheese; Vegetable and Animal Fibres; Paper; Guncotton and Celluloid; Leather, Tanning Materials, Glue; Wood-spirit, Methyl Alcohol and Acetone; Bituminous Coal, Coke and Illuminating Gas; Coal Tar Dyes, Dyed Fabrics, Bleaching and Dyeing.

Reference Books.—Sadtler and Coblentz's Text-Book of Chemistry, Fresenius' Qualitative and Quantitative Analysis, Sadtler's Industrial Organic Chemistry, Allen's Commercial Organic Analysis, Sutton's Volumetric Analysis, etc.

Fees for tuition (a lesson comprises either the period from 9 to 1 o'clock, or from 1 to 5 o'clock):

	First Month of Any Calendar Year.	*Reduced Rate for Subsequent Month.*
Twelve Lessons per week,	$20 00	$15 00
Eleven " "	19 50	14 50
Ten " "	18 75	13 75
Nine " "	18 00	13 00
Eight " "	17 00	12 00
Seven " "	16 00	11 00
Six " "	15 00	10 00
Five " "	13 75	8 75
Four " "	12 50	7 50
Three " "	11 00	6 00
Two " "	9 00	4 00
One Lesson "	7 00	2 00

Matriculation Fee (payable but once) . $5 00
Examination Fee for the Certificate . . 15 00

SPECIAL (OPTIONAL) COURSES IN BOTANY AND APPLIED BOTANY.

Besides the courses required for graduation in Botany and Pharmacognosy and the special course in Bacteriology, the following special courses will be given:

(1) *Powdered Foods and Drugs.*—This course will be devoted to the micro-physical and micro-chemical study of the economic products of the three kingdoms, with special reference to the qualitative and quantitative estimation of commercial powdered foods and drugs.

(2) *Fungi and Fungous Diseases.*—The examination of edible and non-edible fungi; the relation of fungi to the diseases of plants and a study of yeasts and mould leading to the study of the micro-organisms found in foods, beverages, drugs and pharmaceutical preparations.

(3) *Morphology and Physiology.*—A course intended to give a wider and more detailed knowledge of the general morphology, inner structure and physiology of flowering plants, such as is given in Meyer's "Wissenschaftliche Drogenkunde," Tschirch's "Atlas," and Strasburger's "Lehrbuch der Botanik."

(4) *Systematic Botany.*—A study of the main types of lower and higher plants and the prominent and accepted systems of classifications; the facilities of the College, with its Martindale Herbarium, Maisch Herbarium and other collections, making the situation particularly favorable for carrying on this kind of work.

(5) *Field Work in Botany.*—There will be conducted, beginning about April 26th and extending till about July 1st, a series of botanical excursions to various points of interest in the suburbs of Philadelphia. The excursions will be made each week, under the guidance of the Professor of Botany. It may also be mentioned that there are Saturday excursions, under the auspices of the affiliated botanical societies of Philadelphia, the Philadelphia College of Pharmacy being one of the organizations represented. These ex-

cursions are also open to the matriculates and graduates of the College, and afford an excellent opportunity of studying the local flora and of coming into contact with the prominent botanists of Philadelphia and other localities.

Courses 1 to 4, inclusive, will be open to those who have had a certain amount of preliminary training, so as to enable the students to pursue the work profitably. For further information concerning fees for these courses, etc., address the DEPARTMENT OF BOTANY AND PHARMACOGNOSY.

BACTERIOLOGY—SPECIAL (OPTIONAL) COURSE.

BY PROF. HENRY KRAEMER, PH.D.

This course is designed to meet the needs of the modern pharmacist, and is provided for those who desire to fit themselves to make general bacteriological examinations for medical and technical purposes. The course is open to third year students of this College, and those who are similarly qualified to take up the work, and will consist of a series of lectures and laboratory work, beginning October 9th, which will be given two mornings a week, for a term of about four months.

During the course the following subjects will be considered: (1) General bacteriological technique; (2) the morphological and systematic study of some of the common micro-organisms found in water, air, etc., with special reference to their influence on sanitary conditions; (3) the examination of sputum and urine for tubercle bacilli; of pus for gonococci; of blood for Widal's Reaction for typhoid fever, etc.; (4) the cause of spoliation in some drugs and medicinal preparations.

For further information, address the Director.

Fee for the course, $15.

THE COLLEGE REVIEW QUIZZES.

The College Review Quizzes are conducted by the Instructors. All students in the three years' course are required to attend these quizzes. Frequent examinations and exercises in the recognition of specimens will be required, and the ratings in each branch reported to the respective Professor.

The Review Quiz ticket will entitle the student, upon graduation in this College, to a certificate of life-membership in the Alumni Association without further cost.

FEES.

Matriculation.—The matriculation ticket must be taken out for every course, but the fee of $5 is only required for the *first time* it is taken out in this College. The matriculation ticket must be obtained before October 15th of each year, and before application is made for any other tickets.

Lectures.—The three tickets to the lectures must be procured before November 1st. The fee is $15 each for lecture course. Botany and Materia Medica count as one in the first year.

Laboratories.—The tickets for instruction in the several laboratories must be obtained before November 1st. The fee is $15 for each obligatory course.

Review Quizzes.—Each student is required to take out a ticket for the Review Quizzes. The price of the ticket covering the three branches is $15.

Special Students are required to pay the same rates as the regular students, and when an examination is taken, the examination fee.

Examination.—The final examination fee is $15, payable but once, and is not refunded in case of failure.

SUMMARY OF FEES.

FIRST YEAR COURSE.

Matriculation Fee	$ 5 00
Three Lecture Tickets, $15.00 each	45 00
Two Laboratory Tickets, $15.00 each	30 00
Quiz Ticket, covering all branches	15 00
Total	$95 00

SECOND YEAR COURSE.

Three Lecture Tickets, $15.00 each	$45 00
Two Laboratory Tickets, $15.00 each	30 00
Quiz Ticket, covering all branches	15 00
Total	$90 00

THIRD YEAR COURSE.

Three Lecture Tickets, $15 00 each	$45 00
Two Laboratory Tickets, $15.00 each,	30 00
Quiz Ticket, covering all branches	15 00
Examination Fee	15 00
Total	$105 00

The cost of books for the entire three years' course will be about $18.

The tickets for Lectures, Laboratories and Review Quizzes are good only for the term for which they are issued; and when a student fails to pass his examination for advanced standing or for graduation, another ticket must be purchased for the succeeding course.

PRACTICAL EXAMINATION ON LABORATORY WORK.

Two practical examinations will be required at the expiration of each year of the three years' course.

At the end of the first year all students will be required to pass practical examinations in *Practical Botany* and *Operative Pharmacy*.

At the end of the second year all students will be required to pass practical examinations in *Pharmacognosy* and *Qualitative Chemical Analysis*.

At the end of the third year all students will be required to pass practical examinations in *Operative Pharmacy* and *Quantitative Analysis* and *Pharmaceutical Assaying*.

STATEMENT AS TO DEGREES.

The Philadelphia College of Pharmacy, recognizing the need of more thorough pharmaceutical education, now requires attendance on a three years' graded course of lectures and laboratory work; therefore all students are required to take *three full courses* of study, extending through three years.

Upon those who complete this three years' course, pass successfully all examinations, and are qualified as to experience in business, as hereinafter specified, the College will confer the degree of *Doctor in Pharmacy* (*P.D.*). Graduates in Pharmacy from this College may, upon passing the third year examination and paying the usual examination fee, have conferred upon them the degree of Doctor in Pharmacy.

To meet the demands of those who do not desire to become dispensing pharmacists, but who wish a thorough education in Pharmacy and allied branches, either as preparatory to the study of Medicine, or with a view to manufacturing pursuits, the Philadelphia College of Pharmacy has determined to confer the degree of *Pharmaceutical Chemist* (*P.C.*). Pharmaceutical chemists of this College may have conferred upon them the degree of Doctor in Pharmacy (without an additional examination) at the Commencement next succeeding the submission of satisfactory evidence of the requisite experience in the drug business, and the payment of the usual diploma fee.

QUALIFICATION FOR THE DEGREE OF DOCTOR IN PHARMACY (P.D.).

The candidate for the degree of Doctor in Pharmacy must be of good moral character, and have successfully completed all the examinations connected with the three years' course of study in this College. He shall have served out an apprenticeship of at least four years with a person or persons engaged in and qualified to conduct the drug business. He shall also be required to produce an original dissertation or thesis on some subject of Pharmacy, Chemistry, Materia Medica or cognate branches (said subject to be submitted to the Faculty of the College for approval), which shall be written on thesis paper with neatness and accuracy, in his own handwriting. The thesis, with the writer's evidence of experience and the examination fee, must be deposited with the Dean of the Faculty between the 1st and the 15th of February, or earlier, of the session in which the application shall be made.

The candidate may be admitted to the final examination after the expiration of three years and six months of his time of service. (The time actually spent in attendance upon lectures and practical instruction, in the three Laboratories of Operative Pharmacy, Analytical Chemistry, Practical Botany and Pharmacognosy in the College, will be considered part of the time of apprenticeship required for graduation, it being understood that this credit shall not exceed seventeen months.) When the full term of four years' service is completed, if the candidate has complied with all the other requirements, as above stated, he will be recommended in writing by the Committee on Examination and the professors jointly, and, if his application be finally approved of by the Board of Trustees, he shall be entitled to the *Degree of Doctor in Pharmacy* (*P.D.*), and shall receive the diploma of the College.

QUALIFICATIONS FOR THE DEGREE OF PHARMACEUTICAL CHEMIST (P.C.).

The candidate for the degree of Pharmaceutical Chemist from this College must possess the following qualifications, viz.: He must be of good moral character, and have successfully completed all the examinations connected with a three years' course of study in this College. *No apprenticeship qualification, however, is required in this case.* He shall be required to produce an original dissertation or thesis on some subject of Pharmacy, Chemistry, Materia Medica or cognate branches, and, except in the matter of apprenticeship requirement, all the conditions stated for candidates for the degree of Doctor in Pharmacy will also apply to those desiring the degree of Pharmaceutical Chemist.

ADMISSION TO ADVANCED STANDING.

Students who have attended two complete courses of instruction, including both lectures and laboratory work in other Colleges of Pharmacy, which have a three years' graded course, will be admitted to the third year in this College, upon presenting certificates showing that they have passed their examinations. All holding the degree of Graduate in Pharmacy will also be admitted to the third year in this College upon presenting their diplomas. Such students as have pursued but one year in a college having a two years' course will be admitted to the second year in this College upon presenting certificates showing that they have passed their examinations.

MASTER IN PHARMACY.

Every person on whom this degree shall be conferred must be a graduate of this College of not less than five years' standing, must have been engaged in the practice of pharmacy for the period named since his graduation, and must be of good moral character and professional repute. He shall present to the Dean of the Faculty an original dissertation upon some subject connected with any of the branches taught in the College, together with suitable specimens of the results, and an account of whatever aid he may have received in his investigations; also, the written evidence above mentioned. The dissertation, which shall be of his own composition and written in his own handwriting, shall be carefully examined by the Committee on Examination and the Professors, who shall report to the Board of Trustees upon its value, and if deemed sufficient, and the application be finally approved, the applicant shall receive the diploma of *Master in Pharmacy*.

SCHOLARSHIPS.

There have been established for deserving students the *Peter Williamson*, the *Robert Bridges*, the *John M. Maisch*, the *Thomas H. Powers* and the *Keasbey & Mattison Scholarships*, each of which entitles one or more students to free tickets to the courses of lectures for one year.

Candidates for the benefit of these scholarships must apply before the 15th day of August, in their own writing, upon proper blanks, which will be furnished by the Actuary on application to him. The applicant must produce evidence of the possession of a good English education and a good moral character. Preference will be given to those who are engaged in the practice of Pharmacy.

The Committee on Examination and the Professors shall, after due examination, report on these applications at the meeting in September, when the Board of Trustees shall decide on awarding the Scholarships.

The Alumni Association of the College has founded the *Edward C. Jones Scholarship*, which shall entitle the holder to the privilege of taking the required laboratory courses during one college term. Candidates must apply as above.

PRIZES.

Procter Prize.—The "Procter Prize," consisting of a gold medal and certificate, will be annually awarded to the most meritorious *Doctor in Pharmacy: Provided*, that in accordance with the will of the late Prof. Wm. Procter, Jr., such an award is, in the opinion of the Board of Trustees, deserved.

The student to whom this prize shall be awarded must have obtained the highest general average of the class, passed a "very satisfactory" examination in all of the branches and in the recognition of specimens, and must have presented a meritorious thesis. This prize was awarded in 1900 to Harry Lionel Meredith, of Maryland.

William B. Webb Memorial Prize is offered by Mrs. Rebecca T. Webb for the highest general average in the branches of Committee, Operative Pharmacy and Specimens. It consists of a gold medal, and will be awarded at the annual commencement. This prize was awarded in 1900 to Ernest Fullerton Cook, of Pennsylvania.

Professors' Prizes.—Pharmacy.—A gold medal or certificate will be awarded by Prof. Joseph P. Remington to the member of the graduating class who shall present:

(1) A sufficiently meritorious thesis, describing and illustrating an original and new device or contrivance, useful in practical pharmaceutical work, either for making a new class of preparations or improving the production of such as are well known; or,

(2) For a thoroughly good and complete exhibition of pharmaceutical preparations made exclusively by the applicant with the ordinary facilities possessed by the retail pharmacist, without the use of special apparatus, unless such may have been especially devised by the applicant.

The prize was awarded in 1900 to Arthur Peiffer, of Pennsylvania.

Chemistry.—A prize of twenty-five dollars will be awarded by Prof. Saml. P. Sadtler, for knowledge of quantitative chemical analysis, as shown by work embodied in a graduating thesis, or in an original communication published in the *American Journal of Pharmacy*.

The prize was awarded in 1900 to William Torrey Morris, of New York.

Materia Medica Prize.—Twenty-five dollars is offered by Prof. Clement B. Lowe to the member of the graduating class who shall recognize, by the aid of the *simple microscope only*, the largest number of rare or adulterated articles of the Materia Medica.

The competition will be limited to those who shall have attained the grade of *very satisfactory* in the examination in Materia Medica, and the recognition of the specimens of this branch. This prize was awarded in 1900 to Harry Lionel Meredith, of Maryland.

Pharmacognosy Prize.—A prize of twenty-five dollars is offered by Prof. Henry Kraemer to the student who shall present the most meritorious thesis upon any of the following subjects:

(1) Study of one or more drugs, spice or food products of vegetable origin, with special reference to the identification of the powder.

(2) Study of the micro-organisms that exist in either deteriorated crude or powdered drugs, spices or food products of vegetable origin or in pharmaceutical preparations which have changed.

(3) The best collection of crude drugs, together with herbarium specimens yielding the drugs. The herbarium specimens must be mounted on standard herbarium paper. Each specimen must have been collected by the contestant and must be labelled on the lower right-hand corner of the sheet with the botanical name and natural order of the plant, and with the date and locality of its collection, character of soil and any other useful information.

This prize was awarded in 1900 to Willard Ohliger, of Ohio.

Applicants for any of these Professors' Prizes must notify the Professor offering the prize in question, on or before March 1, of their intention of competing, and samples and specimens must be distinctly and neatly labelled, and presented to him by the above date.

The Maisch Prize is a special prize of twenty dollars, offered by Mr. J. H. Redsecker, Lebanon, Pa., in the department of Materia Medica, and will be competed for by those third year students who have passed a "very satisfactory" examination in Materia Medica, including the recognition of specimens, the award being made to the one recognizing, by means of the microscope, the largest number of sections of official or otherwise important drugs or vegetable tissues. It was awarded in 1900 to Frank Joseph Maier, of New Jersey.

Theoretical Pharmacy Prize.—A special prize of a fine Troemner Agate Prescription Balance is offered

by Mr. Mahlon N. Kline of Philadelphia, to the student passing the best examination in Theory and Practice of Pharmacy at the final examination for the degree. This prize was awarded in 1900 to Harry Lionel Meredith, of Maryland.

Operative Pharmacy Prize.—This prize is offered by Prof. Joseph P. Remington to the student passing the best examination in Operative Pharmacy in the final examination for the degree. It consists of twenty dollars in gold and will be awarded at the annual commencement. It was awarded in 1900 to Ernest Fullerton Cook of Pennsylvania.

Alumni Prize.—With the design of stimulating the student toward the attainment of a higher grade of scholarship, the Alumni Association of this College established in the year 1871 a prize of a gold medal, to be known as the "Alumni Gold Medal," and to be awarded to the student who shall pass the best examination for Doctor in Pharmacy. The prize was awarded in 1900 to Harry Lionel Meredith, of Maryland.

PHARMACEUTICAL MEETINGS.

These are held in the College Hall on the Third Tuesday afternoon in every month, from October to May inclusive. They are exclusively for scientific purposes and are intended to promote the knowledge of Pharmacy and collateral sciences. Objects of interest are exhibited and subjects for discussion are introduced. The students of the College are cordially invited to attend these meetings.

THE ALUMNI ASSOCIATION.

The Alumni Association takes an active part in the work of the College year. Monthly social meetings are provided for entertainment and instruction, while a reading-room, supplied with all accessories, is maintained for their convenience and comfort. The Association offers yearly a gold medal to the student who passes the best examination for the degree of Doctor in Pharmacy, a silver medal for the best second course student, and a bronze medal for the best third course student. Prize certificates will be awarded each year to the members of the graduating class who attain the highest average in each individual branch of study in the College examination. In addition, the Association has established a scholarship in the practical laboratories of the College.

The ALUMNI REPORT of the organization contains a yearly review of the work and achievements of the alumni, matters of general pharmaceutical interest, and also a report of the student life and interests at the College. This publication is now issued in monthly numbers, which has greatly increased its interest and value. It is offered to students at a nominal subscription price.

THE MUSEUM.

The collection of interesting objects (materia medica, chemical and pharmaceutical specimens) in the possession of the College has been accumulating for years. They have been preserved and placed in suitable cases in a large hall appropriated for that purpose. An extensive herbarium, consisting of pressed plants labelled and classified, is also arranged in glass cases in this room. The Centennial Exhibition materially assisted in adding valuable specimens to the cabinets, and a large number of drugs have since been procured from Japan and the East Indies, and it is believed that the collection is now the most complete of its kind in the country. A full and carefully indexed catalogue has been recently made of this collection.

Through the generosity of Howard B. French, Ph.G., and the Smith, Kline & French Company, there has recently been purchased and presented to the College the valuable herbarium of the late Mr. Isaac C. Martindale, of Camden, N. J. This collection, which is valued at not less than $15,000, numbers about 200,000 specimens, all arranged and classified. It unquestionably constitutes one of the very best collections of its kind in existence. Its possession by the College affords students of pharmaceutical botany good opportunities to pursue this study.

The Students' Herbarium.—Arrangements will be made so that these extensive herbarium collections of the College will be open for the use of the students, under proper supervision. In addition to this, there has been placed in the reading-room, in a suitable case, an Herbarium collection, which has been accumulated from specimens collected by the students and submitted mostly in competition for the Alumni Prize during a number of years. The collection will be maintained as the "Students' Herbarium," and it will be their privilege and duty to care for and extend it under the guidance of the College Committee on Herbarium. All students of the College have access to this collection during the hours that the reading-room is open, for the purpose of study and reference; but no specimens are to be loaned or taken from the building.

Quiz Specimen Collection.—During the past year there was constructed a working collection of the nearly 1,000 drugs and preparations recognized by the U. S. Pharmacopœia, which was placed in the Students' Reading-room with the Students' Working Herbarium. The purpose of this collection, which is accessible at all times, is to stimulate in students habits of observation of the physical characteristics of all official products, so that statements made in text-books regarding such can be verified and made a matter of direct personal knowledge.

THE COLLEGE LIBRARY.

Among the advantages afforded to the members and students is the use of a well-selected library of works having special reference to the requirements of apothecaries and druggists.

The Library contains many valuable and rare books, forming, perhaps, the most complete collection of books

relating to pharmacy and allied subjects in the country.

It now numbers over 10,000 volumes.

REGISTRAR.

The office of the College will be open and the Registrar, W. Nelson Stem, will be in attendance daily from 9 A.M. to 6 P.M., except from April 1st to October 1st, when the office will be closed at 5 P.M.

The Registrar has a list of respectable boarding houses, and will extend such information to students from a distance as they may desire. Good board may be had at from $4 to $8 per week.

For the accommodation of students, the Registrar will assist them in their collection of moneys, and it will greatly facilitate matters to have their remittances made, if possible, in *postal money orders*, or where that cannot be done, by *cashiers' drafts* on New York or Philadelphia.

EMPLOYMENT.

A register of students wishing situations will be kept in the Registrar's office. In addition to this, there has been formed, by the Alumni Association, a Committee on Employment, whose duty it shall be, through its Secretary, to act as a medium of communication between students wishing situations and employers wishing student-clerks during the College term or longer. Students wishing information should write to Wm. E. Krewson, Secretary of Committee on Employment, 145 North Tenth Street, Philadelphia.

MEETING OF THE PHILADELPHIA ASSOCIATION OF RETAIL DRUGGISTS.

By Frederick T. Gordon, Recording Secretary.

The August meeting of the P.A.R.D. was held August 3, 1900. It was called to order about 2.30 P.M. by First Vice-President Poley, in the absence of President McIntyre. A good attendance was noted. The minutes of the previous meeting were read and adopted in full.

The Recording Secretary reported the receipt of a letter from Mrs. Pinchback (through W. W. Chalfant, Chairman of Memorial Committee), expressing her appreciation of the memorial sent her by this Association, on the death of her husband.

The Financial Secretary reported the receipt of $69 dues from fifty-five members, and a balance in the treasury of $728.48.

Executive Committee, J. C. Perry, Chairman, reported as follows: The question of contribution in the "Phenacetin Case" had been held over to await further information from Mr. Cliffe.

In the matter of the "Free Dispensary" evil, the Committee suggested that the Secretary ascertain from the Secretary of the State Association the names and number of the committee appointed by that body at its last meeting to act in conjunction with the State Medical Association, that a committee be appointed by this Association to act with the above, of a number equal to the State Committee, and that necessary expenses be authorized, after consultation with the Executive Committee.

The renewal of the contract for advertising with the Alumni Report was recommended, the amount involved being $36 yearly.

The N.A.R.D. assessment for 100 additional members being now due, the Committee recommended that the Treasurer be authorized to draw a check for $50 in favor of the N.A.R.D., being the amount at 50 cents per member. The resignation of Dr. Delker was recommended to be accepted.

Bills to the amount of $33.10 were passed upon; these were read in full.

Eleven new applications were received and passed upon favorably.

The Chairman reported unexpectedly favorable results from the paper sent out to the different wards asking for an expression of opinion on the scale of prices recommended by this Association, and the purpose of the signer to maintain or oppose this scale. Twenty-five wards had reported up to date; in these, 319 druggists had signed

favorably, three as opposed, thirty-two refused to sign and twenty-one were absent at the time. From data at hand as to those not yet returned, the Chairman expressed his belief that the great majority of Philadelphia druggists would sign and support this effort to obtain better prices for proprietary articles. In the discussion that this brought out, the Chairman stated that this action was *not* final, and that every druggist would be notified before the final adoption of a scale to govern prices ; also, while the original resolution had called for only three prices, the Executive Committee had deemed it advisable to cover as many prices as possible. Criticisms of the scale were desired, as it merely indicated the lines along which prices would be raised finally ; no absolute price had been yet fixed, and when fixed, it would be governed entirely by the best interests of the druggists in all sections of the city. A full report on this matter was promised for the September meeting.

In response to an inquiry : "If two-thirds of the druggists sign, will others selling below these prices be cut off by the jobbers?" the Chairman read a letter from National Secretary T. J. Wooten, which covered this point. According to it, the N.A.R.D. would give every assistance to local associations trying to fix price-scales, and, if "cutters" persisted in selling below the scale, an example would be first made of the most prominent. Every druggist signing or maintaining the adopted scale of prices would be given every protection in the power of both national and local associations. This letter warmly commended the work now being done by the Executive Committee and the P.A.R.D., and promised all support possible. The Chairman here took occasion to state that no druggist need be in fear that this scale would be put into effect too hastily. Every point would be gone over and considered, the needs of each particular section being looked out for, and the fullest criticism and advice was solicited from the members of the Association. It was the intention of the Executive Committee to go slowly and surely and to avoid any mistake from haste that would necessitate the retracing of any step, and to cover every possible contingency beforehand, so that failure would not come from ill-advised action. The report of the Executive Committee was then adopted.

There were no other committee reports presented. President McIntyre, arriving, assumed the chair.

NEW BUSINESS.

The bills passed by the Executive Committee were approved and ordered paid.

A motion was made to contract for a larger advertisement in the ALUMNI REPORT ; amended to continue present contract. Adopted as amended. The Executive Committee were authorized to renew the contract for one-quarter page, at $36 a year, with the ALUMNI REPORT.

Acting on the suggestion as to "Free Dispensaries" in the Executive Committee report, it was moved and adopted that "the Recording Secretary ascertain from the Secretary of the State Pharmaceutical Association the names and number composing the committee appointed by that body ; that a committee of equal number be appointed by the President to act in concert with this committee and that of the State Medical Association ; and that all necessary expenses be submitted to the Executive Committee before being incurred, the Executive Committee being authorized to pass all expenses necessary to carry out the orders of the Association in this matter.

A resolution of sympathy and condolence with Prof. C. B. Lowe in his recent bereavement was adopted and ordered forwarded by the Recording Secretary.

A resolution was offered by Mr. Perry that "It be recommended by this Association that, in giving copies of prescriptions to customers, druggists filling same should put their price in Roman numerals on them."

Mr. Perry stated that he had offered this resolution because of the many unpleasant incidents arising from the varying prices

charged for refilling prescriptions ; while an unscrupulous person might take advantage of a competitor's price, he thought that a well-meaning man would be glad to have a guide to what the customer would expect to pay for the refilling of the original prescription. Adopted.

Mahlon Kratz wished to assist the Executive Committee in the work of getting the "price-scale" signed, and offered his services in this connection, which were accepted with a vote of thanks.

There being no further new business, the meeting resolved itself into an "experience meeting," in which the woes and joys of the "meek and humble apothecary" were discussed and talked over, about every member present participating.

What seemed to be in the minds of every one was the remarkable good feeling that was beginning to be felt among the druggists of this city for each other. While competitors for the dollars and good will of the dear public, pretty nearly everybody had come to the conclusion that it was not necessary to look upon the "other fellow" as a robber and an unhung scoundrel, for, after all, the "other fellow" was quite a decent chap when you got to know him, and he had his own troubles, too! As one member brought out, "if the P.A.R.D. has done nothing else, it has fulfilled its mission by the good it has done in bringing the druggists of the city together on a common ground, and getting them acquainted with one another." That this was not an enthusiast's view was shown by the reports of those to whom the work of obtaining signatures to the "price-scale" had been assigned ; every one of these reported that they had been received in a friendly and courteous spirit wherever they had gone, with very few exceptions. Even those who could not, for various reasons, sign the scale favorably, had met the P.A.R.D. representatives with a friendly feeling.

Executive Board Meeting.

The first stated meeting of the Executive Board of the Alumni Association of the Philadelphia College of Pharmacy, for 1900–1901, was held on Thursday, June 7, 1900, in the Library of the College, John H. Hahn, First Vice-President, being in the chair.

The following members were present: John H. Hahn, C. Carroll Meyer, Wm. E. Krewson, Wm. G. Nebig, Harry L. Stiles, Frank P. Streeper, Walter A. Rumsey, Jacob M. Baer, Clarence H. Campbell, M. Wm. Bamford and Lawrence S. A. Stedem.

The following ex-Presidents were also present: Thos. S. Wiegand, Wm. N. Stem, Dr. Chas. A. Weidemann and James C. Perry.

Communications were received from the President, Theodore Campbell, Frederick Wm. Haussmann, and Dr. Adolph W. Miller regretting that they would be unable to be present.

The minutes of the special meeting of the Executive Board, of May 8, 1900, were read and approved.

Harry L. Stiles reported that the Committee on procuring a suitable testimonial to Prof. Frank G. Ryan, Second Vice-President, who resigned from the College as Instructor in Pharmacy, had prepared the following resolutions, which were in the hands of C. H. Kimmig, who was properly engrossing them in album form, and as soon as they were completed and signed by the President and Secretary and the Committee, would be forwarded to Prof. Ryan.

The resolutions were as follows :

At a meeting of the Board of Directors of the Alumni Association of the Philadelphia College of Pharmacy, held May 8, 1900, the

following resolutions were unanimously adopted:

WHEREAS, With the most profound regret, we learn of the resignation of Frank G. Ryan, Ph.G., as Instructor in the Theory and Practice of Pharmacy and Assistant Director of the Pharmaceutical Laboratory, and

WHEREAS, We desire to express our sincere and earnest appreciation of his long and valued services with us as a member of our Association and of the corps of instructors, therefore,

Resolved, That it is the ardent wish of the several members of the Board that the future of our fellow-alumnus and Second Vice-President be an era of unbroken prosperity, health and happiness, and not alone for himself, but his family as well.

Resolved, That the foregoing preamble and resolutions be spread upon the minutes of the Association and that an engrossed copy of the same be presented to Professor Ryan upon his departure from our city.

(Signed) THEO. CAMPBELL, *President.*
WM. E. KREWSON, *Secretary.*
JOHN H. HAHN,
HARRY L. STILES,
J. LOUIS D. MORISON,
Committee.

On motion, the report of the Committee was accepted and the Secretary was requested to notify the members of the Executive Board when the resolutions were properly engrossed, in order that they might see them before they were forwarded.

The Secretary stated that the President had appointed the following committees for 1900–1901:

Finance Committee—John H. Hahn, '81, Chairman; Frank G. Ryan, '84; Wm. G. Nebig, 86.

Committee on Publication—Melvin Wm. Bamford, '99; Clarence H. Campbell, '90; Jacob M. Baer, '81; Jos. W. England, '83; Wm. N. Stem, '73.

Historical Committee—F. Wm. E. Stedem, '82, Chairman; Jos. P. Remington, '66; Wm. E. Krewson, '69.

Memorial Committee—Wm. E. Krewson, '69, Chairman; Dr. Clement B. Lowe, '84; Lawrence S. A. Stedem, '93.

Committee on Annual Reception—Harry L. Stiles, '85, Chairman; Walter A. Rumsey, '84; Frank P. Streeper, '88.

Committee on Social Meetings—Dr. J. Louis D. Morison, '88, Chairman; Harry L. Stiles, '85; M. Wm. Bamford, '99; Wm. G. Nebig, '86; James C. Perry, '91.

Committee on Class Organizations—Dr. J. Louis D. Morison, '88, Chairman; Prof. Frank X. Moerk, '84; Freeman P. Stroup, '97; John H. Hahn, '81; Wm. G. Nebig, '86.

Delegates to the American Pharmaceutical Association—Prof. Frank G. Ryan, '84, Chairman; F. Wm. E. Stedem, '82; Prof. Henry Kraemer, '89; Wm. McIntyre, '64; Edwin M. Boring, '67.

Delegates to the Pennsylvania Pharmaceutical Association—John H. Hahn, '81, Chairman; Harry L. Stiles, '85; James C. Perry, '91; Wm. L. Cliffe, '84; Lawrence S. A. Stedem, '93.

It was reported that the above-named committeemen had been notified of their appointments and that they had accepted the same.

F. Wm. E. Stedem, of the delegation appointed to attend the U.S.P. Convention of 1900, read the report of the Committee. (See ALUMNI REPORT, June, 1900, 126, 127.)

On motion, the report was accepted.

F. Wm. E. Stedem, also one of the delegates to attend the meeting of the American Pharmaceutical Association, read the report of the delegation, which was accepted. (See ALUMNI REPORT, June, 1900, 127, 128.)

The Secretary reported that Wm. L. Cliffe, ex-Treasurer, had paid over the balance of the funds in his hands, as Treasurer of the Alumni Association, to C. Carroll Meyer, Treasurer, amounting to $73.75 (the balance at the close of the annual meeting). He also returned 76 cents in postage stamps.

The Secretary also stated that Mr. Cliffe had paid over to the Treasurer of the College, James T. Shinn, $17, being the balance

in hand on account of the Edward C. Jones Scholarship Fund.

Thos. S. Wiegand reported that he had received from Chas. F. Rebsamen, '85, $5 for the E. C. Jones Scholarship Fund, which he had paid to the Treasurer of the College.

Wm. N. Stem, Business Manager, reported that he had paid over to the Treasurer since the annual meeting, $172.76.

Treasurer C. Carroll Meyer reported that he had received from ex-Treasurer William L. Cliffe $73.75, and from Business Manager Wm. N. Stem, $172.76, a total of $246.51. He had paid out orders on bills approved by the Finance Committee, $128.39, leaving a balance of $118.12.

On motion, the reports of the Business Manager and Treasurer were accepted.

The Finance Committee reported that they had approved of bills amounting to $128.39, which the Treasurer had paid.

On motion, report of the Finance Committee was received and their action approved.

The Secretary read the resignation of Prof. Frank G. Ryan as Second Vice-President on account of removal from the city, and, in so doing, wished the Association continued prosperity and its individual members a long and happy life.

On motion, the resignation was accepted with the regrets of the Executive Board.

On motion, the Executive Board went into nominations and election of Second Vice-President, to fill the vacancy.

Wm. G. Nebig, the Corresponding Secretary, was nominated for Second Vice-President.

On motion, nominations were closed, and the Secretary was authorized to cast the ballot, which was done, and the President declared Wm. G. Nebig duly elected as Second Vice-President.

Prof. Frank X. Moerk was then nominated as Corresponding Secretary.

On motion, nominations were closed, and the Secretary was authorized to cast the ballot, which was done, and the President declared Frank X. Moerk duly elected as Corresponding Secretary.

A communication was read from Dr. Richard V. Mattison, an ex-President of the Association, in reference to ex-Presidents as members of the Executive Board.

On motion, it was ordered filed.

The Secretary read a letter from Edwin Mason Murphy, of Macon, Miss., the second year student who received the silver medal of 1900, thanking the Alumni Association for the honor shown him in awarding him the medal.

The Secretary reported that he had received from the Class of '96, on account of the W. S. Sellers Memorial Fund, $20.75.

Wm. G. Nebig moved that a committee of three be appointed to request the Committee on Property of the Board of Trustees to furnish the students a smoking room in the College.

It was so ordered, the President appointing Wm. G. Nebig, Clarence H. Campbell and Jacob M. Baer as the committee.

The Secretary reported that he had received the minute books from the following class societies and he had placed them in the College safe: Zeta Phi Society, Beta Phi Society, Alpha Phi Society, Pennsylvania Club, Pacific Club, Occidentals or Western Club, and the Young Men's Christian Association of the College.

The Secretary reported the following deaths:

John R. Costin, Class of '91, died on January 24, 1900, at Centreville, Queens County, Md. He joined the Alumni Association April 20, 1891.

Willis Leslie LaRue, Class of '95, died on March 28, 1900, at Dillsburg, Pa., of consumption. He joined the Alumni Association April 11, 1895.

Dr. Wm. E. DeLong, Class of '85, died on May 18, 1900, at 3543 North Mervine Street, Philadelphia, aged 41 years. He joined the Alumni Association April 20, 1891.

Dr. George H. Markley, Class of '54, died at his home in Harrisburg, Pa., on May 11, 1900, aged 67 years. He was not a member of the Alumni Association.

The Secretary announced that he had received a notice of the Texas State Pharmaceutical Association Meeting, held at Dallas, Tex., May 15, 16 and 17, 1900, together with the program of the meeting, from Eugene G. Eberle, '84.

He had received also the calendar of the Pharmaceutical Society of Ireland, 1900, corrected to 3d of January, 1900, Vol. XXIV, from Arthur T. Ferrell, Registrar and Clerk of Council.

On motion, the meeting adjourned.

Item.

——To the majority, death — inevitable death—has a forbidding aspect, but there are times when it comes with shocking emphasis. When youth, in the full flower of manhood or womanhood, and apparently rich in possibilities of usefulness, is ruthlessly swept into eternity, without a moment's warning, then death is crushing in its victory. One of the saddest of incidents that has lately come to pass occurred at Ocean City on the morning of July 31. Miss Virginia M. Lowe, aged twenty-four years, and Miss Elsie M. Lowe, aged twenty-seven years, daughters of Prof. Clement B. Lowe, of the Philadelphia College of Pharmacy, were drowned in the surf while bathing, as were also two other young sisters, the Misses Lonsdale, of Germantown, this city.

The young women were the guests of Mrs. S. M. Meehan, of Germantown, whose cottage was near the beach. The bathing party was made up of Mrs. Meehan, young Clement W. Lowe, and the four young ladies. When the party were swept into danger the seriousness of it was first noticed by young Lowe, who managed to swim ashore and rush for assistance. There were three or four men in their bathing suits upon the shore, but they made no efforts whatever to rescue the drowning. Possibly, if instant action had been taken, the lives of all might have been saved, as the bathers were not "over their heads" in the water. But the men did not do a thing even to help Clement. When the life guards came, Mrs. Meehan was gotten ashore with great difficulty. The Lonsdale girls were still battling for life—the Lowe girls had disappeared. The Lonsdale girls were finally brought ashore by the guards, after very hard work, but they were dead, and some time after the ocean gave up the Lowe girls. Later the bodies were taken to their late homes in Germantown. It has been intimated by some of the newspapers that the girls were venturesome, but this, we are told, was not so ; they were only a short distance from shore, and the accident was a combination of gully, undertow and waves. Virginia Lowe lost her life, it is thought, by trying to save Elsie. The funeral of the Lowe girls was held on August 1, and was entirely private.

The Misses Lowe were widely known and respected in social and church circles in Germantown, and the accident evoked expressions of sincere sorrow all over the city. Many of the Philadelphia drug trade will remember the Misses Elsie and Virginia Lowe, for they have often accompanied their father to the Alumni Social and other association meetings. The Misses Lowe were graduates of the Girls' High School and the Drexel Institute, and Miss Elsie further held the diploma of the Philadelphia School of Pedagogy. It is of interest to add that she attended the lectures on Botany and Physiology at the P.C.P., with the Class of 1900, and also took the course in the Microscopical Laboratory.

We know that we voice the feelings of the graduates of the Philadelphia College of Pharmacy everywhere when we extend to our fellow-alumnus, Dr. Lowe, and his family our heartfelt sympathy in their bereavement.

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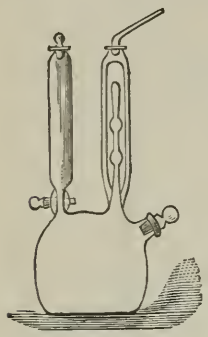

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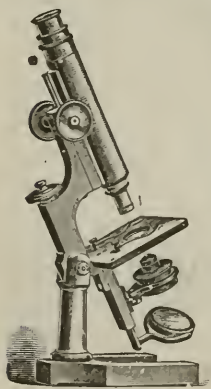

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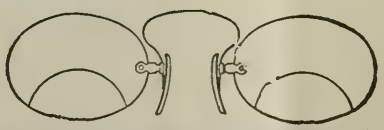

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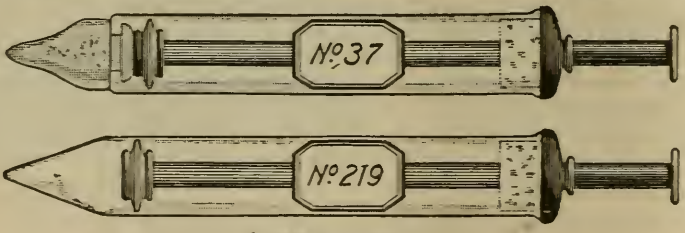

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